

 CALIFORNIA AIR RESOURCES BOARD	FPT INDUSTRIAL S.p.A.	EXECUTIVE ORDER U-R-015-0433-1 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-19-095;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2020	LFPXL03.4DE1	3.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Electronic Control Module, Turbocharger, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Periodic Trap Oxidizer			Loader, Tractor, Dozer, Pump, Generator Set and Other	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NO<sub>x</sub>), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO<sub>x</sub>), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	4.1	0.2	0.02	--	--	--

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

This Executive Order hereby supersedes Executive Order U-R-015-0433 dated January 10, 2020.

Executed on this 1<sup>ST</sup> day of July 2020.



Allen Lyons, Chief  
Emissions Certification and Compliance Division

## Engine Model Summary Template

EO#: U-R-015-0433-1 Attachment: 1 of 1

Date: 5/29/20

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
LFPXL03.4DE1	F5DGL463B*X	F5DGL463B*X	74 @ 2300	58	N/A	320 @ 1300	73	N/A	DDI, ECM, TC, EGR,DOC PTOX
LFPXL03.4DE1	F5HGL463E*X	F5HGL463E*X	74 @ 2300	57	N/A	314 @ 1400	72	N/A	DDI, ECM, TC, EGR,DOC PTOX
LFPXL03.4DE1	F5DGL463D*X	F5DGL463D*X	64 @ 2300	52	N/A	290 @ 1300	65	N/A	DDI, ECM, TC, EGR,DOC PTOX
LFPXL03.4DE1	F5HGL463F*X	F5HGL463F*X	64 @ 2500	50	N/A	260 @ 1400	63	N/A	DDI, ECM, TC, EGR,DOC PTOX
LFPXL03.4DE1	F5DGL463C*X	F5DGL463C*X	58 @ 2300	48	N/A	265 @ 1300	61	N/A	DDI, ECM, TC, EGR,DOC PTOX
LFPXL03.4DE1	F5HGL463D*X	F5HGL463D*X	58 @ 2500	48	N/A	250 @ 1400	55	N/A	DDI, ECM, TC, EGR,DOC PTOX